Alexey Zarakovskiy

Senior Software Engineer
Master in Computer Science

Amsterdam

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Fluent English, native Russian,
proficient Dutch, Spanish & Polish.

Citizen of the European Union.

Passionate backend software engineer. Language and technology agnostic.
Nothing-is-impossible mindset. 5+ yrs Golang, 9+ yrs Java / Kotlin, 6+ yrs Javascript.

Golang · Kotlin · Java · PHP · Javascript · Python · SQL · Bash · AWS · Distributed Systems · Protobuf
Kubernetes · Kafka · Docker · DynamoDB · Prometheus · Grafana · Elasticsearch · Open-source

Projects & Experience

Personio · Intelligent HR Platform

Senior Backend Developer · Mar 2023 - Present · 1 yrs 10 mos · Amsterdam

I led development for a greenfield project to comply with the EU whistleblowing directive
in a team of 5 engineers. I designed the architecture and closely collaborated with the
Security teams to ensure complete anonymity of a whistleblower using a dedicated AWS
setup that is separated from the main cluster. It used AWS Gateway & custom proxy
authorization Lambda functions for secure communication with the system. After the
project reached its completion, I remained responsible for its maintenance and security
fixes with uptime for 2024 at 99.92%.

I joined the new Surveys team and switched to a new Kotlin stack where I led features
end to end:

- Full redesign of the application dashboard that required a drastic reconsideration
  of backend API and the database model allowing to request data according to
  flexible data filters.
- Optimization of the database to save storage space. This required careful data
  analysis and migration of 24 Gb of data to a new schema without any downtime.

Golang · Kotlin · Kubernetes · AWS · PostgreSQL · Docker · Kafka · Kubernetes · Protobuf · Typescript

BEAT · Major ride-hailing mobility app famous in multiple LatAm countries

Senior Backend Developer · Sep 2019 - Jan 2023 · 3 yrs 4 mos · Amsterdam

In the Platform Services team, I developed the API gateway and authentication service as
part of a migration process out of the PHP monolith.

APIs in the monolith should have been gradually migrated to the microservices without
downtime, with authentication and flexible routing options. In a team, I built the tools to
allow product teams to take over the traffic from the monolith, and do it independently.
With a load of 5-10k requests per second for the entire platform, it was very important to
ensure its uptime.

I implemented an automatic service discovery in Kubernetes, and did a lot of research for it in terms of using Ingresses, K8S API and custom resources that would replace them.

For the authentication purposes, I built the highly performant microservice backed up by DynamoDB and Redis for user identity storage and management. The data would be consumed from Apache Kafka.

Golang · Kubernetes · AWS · DynamoDB · Docker · Kafka · PHP · Protobuf

fashionTrade · Online b2b marketplace for fashion

Senior Java Developer · May 2018 - Jul 2019 · 1 yr 3 mos · Amsterdam

I was responsible for development of a CRM integration with brands. The challenges were the need to normalize the incoming data because it didn't have any universal structure, and then disambiguate this data against the already existing data to prevent duplicates and enrich it for everyone. This involved building RESTful APIs, using advanced patterns of Kafka topic synchronization and complex Elasticsearch queries to find existing matches.

Java · Python · REST · Docker · Kafka · GCP · Kubernetes · Elasticsearch

SDL Web · Open-source framework for a complex enterprise CMS

Technical Team Leader · Jan 2017 - Apr 2018 · 11 mos · Amsterdam

Senior Java Developer · Oct 2015 - Jan 2017 · 1 yr 8 mos · Amsterdam

The company's main product CMS is extremely complex for end-users developing their custom components. In order to abstract its complexity away, my team implemented an open-source community-driven framework in both C# and Java.

I led the development of the Java counterpart in close collaboration with the C# team, and in constant touch with the community using the tool. The tool is processing raw data and maps it on the given models by heavily using reflection.

Java · Spring · Maven · Gradle · Open-source · C#.NET

EPAM Systems · Various clients and projects in an outsourcing/consultancy agency

Senior Java Developer · Jun - Sep 2015 · 4 mos · Poland & Germany

Senior Java / Javascript Developer · May 2014 - May 2015 · 1 yr 1 mos · Russia ➡ Poland

Java / Javascript Developer · Jul 2012 - Apr 2014 · 1 yr 9 mos · Russia

L.I.C. · Documents and business workflows management system

Java / Javascript Developer · Jul 2011 - Jul 2012 · 1 yr 1 mos · Russia

Web studio "Orange" · Various websites of different complexity and scale

PHP / Javascript Developer / Project Manager · Jun 2009 - Jun 2011 · 2 yrs 1 mos · Russia

State factory "Energy" · Radio intelligence and monitoring systems

C++ / C#.NET Developer · Jul 2006 - Jun 2009 · 3 yrs · Russia

Education

UX Design Essentials Course · 2011 · Russia

State University of Informational Technologies "ITMO", Master, Computer Science · 2005 - 2011 · Russia